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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,961	03/12/2004	Randy L. Hoffman	200316547-1	1458
22879	7590 11/30/2005		EXAMINER	
HEWLETT	PACKARD COMPA	KRAIG, WILLIAM F		
P O BOX 27	2400, 3404 E. HARMO	NY ROAD		
INTELLECTUAL PROPERTY ADMINISTRATION			ART UNIT	PAPER NUMBER
FORT COLLINS, CO 80527-2400			2815	

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/799,961	HOFFMAN ET AL.	HOFFMAN ET AL.			
	Office Action Summary	Examiner	Art Unit	(mg)			
	·	William Kraig	2815				
	The MAILING DATE of this communication ap	pears on the cover sheet	with the correspondence addr	ess			
Period fo		V 10 05T TO EVDIDE ++		D.4.V.O.			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nations of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN (36(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become a	IICATION. a reply be timely filed ONTHS from the mailing date of this common ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>03/1</u>	<u>2/2004</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under be	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Dispositi	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-57</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)□	Claim(s) is/are rejected.						
•	Claim(s) is/are objected to.						
8)⊠	Claim(s) <u>1-57</u> are subject to restriction and/or	election requirement.	·				
Applicati	on Papers						
9)[The specification is objected to by the Examine	er.					
10)	The drawing(s) filed on is/are: a) acc	epted or b) objected to	by the Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correc	·					
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attache	ed Office Action or form PTO	-152.			
Priority u	ınder 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority document	ts have been received.					
	2. Certified copies of the priority document	*					
	3. Copies of the certified copies of the prio	·	n received in this National St	age			
* 0	application from the International Burea		at received	•			
	See the attached detailed Office action for a list	or the certified copies no	n received.				
•							
Attachmen		_					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		v Summary (PTO-413) o(s)/Mail Date				
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		f Informal Patent Application (PTO-1	52)			

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-20, 37-44, and 48-57, drawn to a semiconductor device, classified in class 257, subclass 288.
- II. Claims 21-36, drawn to a method of forming a semiconductor device, classified in class 438, subclass 197.
 - III. Claims 45-47, drawn to method of using a semiconductor device, classified in class 257, subclass 288.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the method of claim 21 can be used to make a materially different product from the device of claims 1-20 wherein there is no gate dielectric or gate electrode. The device of claim 48 can also be made by a materially different process from the method of claim 21 wherein there are a plurality of pixel devices created.

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the

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process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the method of claim 45 can also be practiced with a materially different product from the device of claims 1-20 wherein the channel includes thallium. The method of claim 45 can also be practiced with a materially different product from the device of claim 48 wherein there is only one pixel device.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classifications and divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William Kraig whose telephone number is 571-272-8660. The examiner can normally be reached on Mon-Fri 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571-272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WFK

GEÖRGE ECKERT PRIMARY EXAMINER